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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/763,186	01/26/2004	Toru Tsukada	Q79580	6504
23373	7590	10/05/2005	EXAMINER	
SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			KIM, CHONG HWA	
			ART UNIT	PAPER NUMBER
			3682	

DATE MAILED: 10/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary

Application No.

10/763,186

Applicant(s)

TSUKADA ET AL.

Examiner

Chong H. Kim

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 September 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 17-47 is/are pending in the application:
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 17-47 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on Sep 26, 2005 has been entered.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 17-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nilsson, U.S. Patent 3,643,521 in view of Yabe et al., U.S. Patent 6,004,039.

Nilsson shows, in Fig. 2, a feed screw device comprising;

a screw shaft 10;

a nut member 11 threadably engaging an outer peripheral surface of the screw shaft;

a lubricant supply device 17, at least a portion 18 of the lubricant supply device

contacting the screw shaft;

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a housing member 22 which is secured to the nut member and houses the lubricant supply device, the nut member being positioned outside of the housing member;

wherein the housing member/retaining ring, comprising a cylindrical portion 27 that extends away from the nut member and an end face (the vertical portion of 22) that covers an axial end (the right side end) of the lubricant supply device, is disposed to project from an axial end surface of the nut member and along an outer circumferential surface of the lubricant supply device, the outer circumferential surface extending in a longitudinal direction of the screw shaft and beyond the end face of the nut member;

wherein the portion 18 of the lubricant supply device contacts a threaded groove of the screw shaft;

a means (screw) for securing the housing to the nut member; and

wherein the means for securing comprises a screw/fastener threaded to contact at least a portion of the nut member and into at least a portion of the housing;

but fails to show a side that extends radially inward to cover the axial end portion of the lubricant supply device and the lubricant supply device containing a lubricant.

Yabe et al. shows, in Figs. 1-12, a housing member 2 which is secured to a nut member J and houses a lubricant supply device 1, 4a, and/or 4b containing a lubricant oil (as described in col. 2, lines 52-64), the nut member being positioned outside of the housing member, wherein the housing member includes a side 24 or (25 as shown in Fig. 8) that extends radially inward to cover an axial end portion of the lubricant supply device, the axial end portion of the lubricant supply device faces in the longitudinal direction away from the nut member.

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As to the structure of the housing member, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the housing member of Nilsson with the capped housing member as taught by Yabe et al. in order to further protect the lubricant supply device from the separation from the nut member so that the feed screw device would last longer.

As to the lubricant supply device containing a lubricant, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the sealing member of Nilsson with the oil containing lubricant supply device as taught by Yabe et al. in order to simplify the recharging of the lubricant so that the cost of maintenance can be reduced. (see Col. 1, Lines 33-38).

Response to Arguments

4. Applicant's arguments with respect to claims 17-36 have been considered but are moot in view of the new ground(s) of rejection.

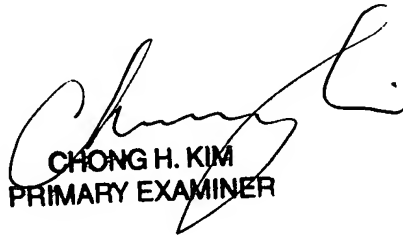
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chong H. Kim whose telephone number is (571) 272-7108. The examiner can normally be reached on Tuesday - Friday; 7:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Bucci can be reached on (571) 272-7099. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

chk
September 30, 2005


CHONG H. KIM
PRIMARY EXAMINER